

Appendix A
Initial Site Data Provided for the
Prioritization Exercise Held
March 28, 2002

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This appendix presents the initial or best available site data collected after the first value engineering session held on February 28, 2002. Data were collected on each soil site to enable addressing the six criteria that were determined to be appropriate for prioritization of the soil sites. These initial data were presented on slides at the March 28, 2002, site scoring value engineering session to assist the evaluators with scoring the soil sites against the six criteria.

These initial data were obtained from INEEL reports, databases, engineered drawings, physical site walk-downs, and interviews with cognizant INEEL personnel. Some of this information may not be technically or factually correct, but was the best available information that could be obtained in the time frame allocated for initial data collection. Comments and issues brought up at the site scoring value engineering session that expand or conflict with the initial data are presented in Appendix E as footnotes. The initial data provided here have not been revised to reflect the comments or issues in Appendix E. Prior to implementation of remediation at the specific sites, additional evaluation will be performed and more data may be collected to address any comments or issues.

CPP-01

Concrete Settling Basins and
Dry Wells East of CPP-603

Area: 50 ft²

Depth: GS to 32 ft bgs

Volume: 4,200 ft³

Criteria	Data
Environmental Risk	Significantly above RG's for CS-137 (906 times greater), Eu-152 (76 times greater) and Eu-154 (6.2 times greater). Also accounts for nearly 30% of all the Eu in the Group 3 sites. Similar to CPP-4 and CPP-5.
Infrastructure	Easily accessible. 3—infrastructure (CPP-740 filter bed, fence, Well MW-16). 3—Process Waste Low Level.
Integration	CPP-603, heavy traffic in future, casks enter primarily from west side, on east side a Storage Pad is being built for West Valley Fuel & TAN Casks. Privatized Dry Storage Facility to go somewhere in this general area in the near future (Randal Martin).
Future Use	No identified future use for area CPP-01, CPP-603 to be active after 2012, no anticipated D&D&D through 2012.
Waste Management	Debris requires separate management/containerization (e.g. concrete, pipes, etc.). No anticipated sampling to meet ICDF LDR.
Worker Complexity	High contamination levels with little to no structural and utility interference.



CPP-03

Temporary Storage Area Southeast
of CPP-603

Area: 75,000 ft²

Depth: GS to 4 ft bgs

Volume: 300,000 ft³

Criteria	Data
Environmental Risk	Not a significant contributor to the overall Group 3 contaminants. Only 1.5 times above the RG for CS-137.
Infrastructure	Easily accessible. 8—infrastructure (Culvert; Railroad Track; Car Puller; Manhole; Cathodic Protection; Willow Ave. S. Patrol Rd.; Evergreen St. East Patrol Rd.; 1 - Electrical Conduit).
Integration	CPP-603; heavy traffic in future, casks enter primarily from west side, on east side a Storage Pad is being built for West Valley Fuel & TAN Casks. Privatized Dry Storage Facility to go in this general area in the near future (Randal Martin).
Future Use	No clear identified future use for area CPP-03, CPP-603 to be active after 2012, no anticipated D&D&D through 2012. Unclear where Privatized Dry Storage Facility will be built.
Waste Management	No debris anticipated.
Worker Complexity	Moderate contamination, no external hazards present, no labor or hands on work required.



CPP-04/05

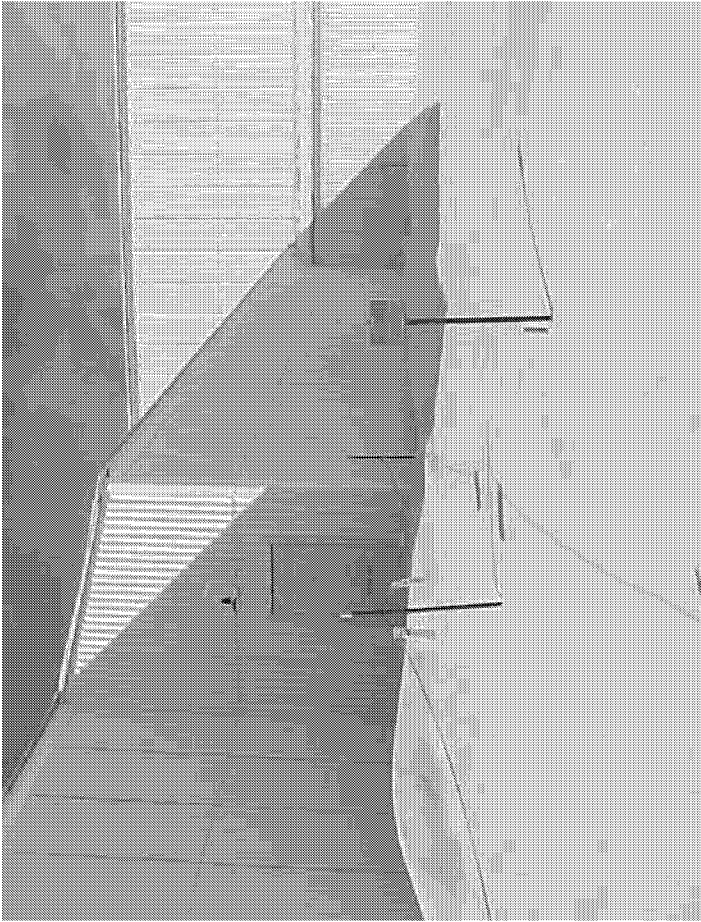
Contaminated Soil Area Around CPP-603
Settling Tank & Settling Basin

Area: 4,422 ft²

Depth: GS to ~ 2 ft bgs

Volume: 8,844 ft³

Criteria	Data
Environmental Risk	Significantly above RG's for CS-137 (906 times greater), Eu-152 (76 times greater) and Eu-154 (6.2 times greater). Also accounts for nearly 30% of all the Eu in the Group 3 sites. Similar to CPP-01.
Infrastructure	Easily accessible. 7—infrastructure (MAH-SFE-SW-SW-047; MAH-AFE-PL-301; CPP-301; MAH-SFE-SW-048; Fence; CPP-740 filter bed; Well MW-16). 6—Process Waste Low Level. 1—High Pressure Steam.
Integration	CPP-603, heavy traffic in future, casks enter primarily from west side, on east side a Storage Pad is being built for West Valley Fuel & TAN Casks. Privatized Dry Storage Facility to go somewhere in this general area in the near future (Randal Martin).
Future Use	No identified future use for area CPP-04/05, CPP-603 to be active after 2012, no anticipated D&D through 2012. Unclear where Privatized Dry Storage Facility will be built.
Waste Management	No debris anticipated.
Worker Complexity	High radiological contamination, limited external hazards present but fully controlled, some labor or hands on work required.



CPP-08

CPP-603 Basin Filter System Line
 Failure Area: 2,700 ft²
 Depth: 31 ft bgs
 Volume: 83,700 ft³

Criteria	Data
Environmental Risk	Above RGs for Cs-137 (46 times greater) and Sr-90 (4 times greater). Not a significant contributor to Group 3 contamination.
Infrastructure	Most of this site INACCESSIBLE. Much of site is located under CPP-603. 1—CPP-603 S. F. Storage Facility.
Integration	CPP-603, heavy traffic in future, casks enter primarily from west side, on east side a Storage Pad is being built for West Valley Fuel & TAN Casks. Privatized Dry Storage Facility to go somewhere in this general area in the near future (Randal Martin).
Future Use	No identified future use for area CPP-08, CPP-603 to be active after 2012, no anticipated D&D through 2012. Unclear where Privatized Dry Storage Facility will be built.
Waste Management	Debris requires separate management/containerization (concrete, pipes, etc.). No anticipated sampling to meet ICDF LDR.
Worker Complexity	Moderate radiological contamination, no external hazards present, no anticipated hand work or labor work required.

CPP-09

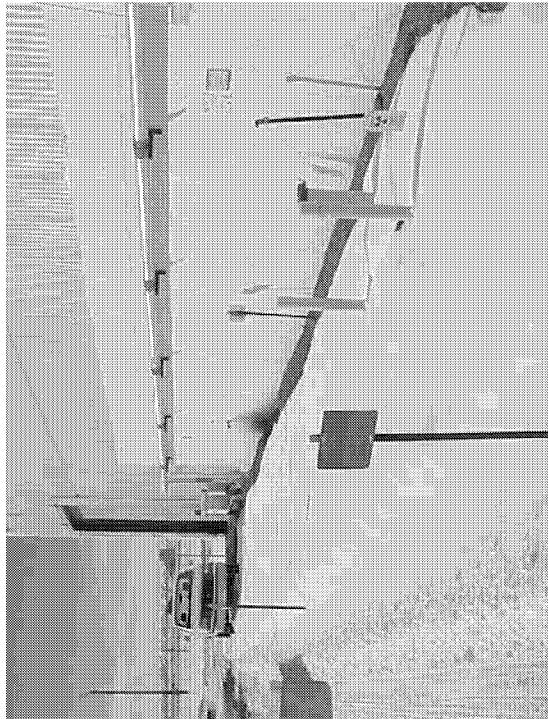
Soil Contamination at Northeast Corner of CPP-603 South Basin

Area: 2,700 ft²

Depth: 31 ft bgs

Volume: 83,770 ft³

Criteria	Data
Environmental Risk	Above RGs for Cs-137 (46 times greater) and Sr-90 (4 times greater). Not a significant contributor to Group 3 contamination.
Infrastructure	Most of this site INACCESSIBLE. Much of site is located under CPP-603. 10—infrastructure (5 – Fire water lines; 1 – Basin water line; CPP-603; cathodic protection; well MW-17; VES-SFE-106 remaining structures). 17—infrastructure (6 – Process Waste Low Level; 1-Condensate line; 4–High pressure steam lines; 1 – Service waste line; 5 - Electrical or other lines).
Integration	CPP-603, heavy traffic in future, casks enter primarily from west side, on east side a Storage Pad is being built for West Valley Fuel & TAN Casks. Privatized Dry Storage Facility to go somewhere in this general area in the near future (Randal Martin).
Future Use	No identified future use for area CPP-09, CPP-603 to be active after 2012, no anticipated D&D through 2012. Unclear where Privatized Dry Storage Facility will be built.
Waste Management	Debris requires separate management/containerization (concrete, pipes, etc.). No anticipated sampling to meet ICDF LDR.
Worker Complexity	High to moderate radiological contamination, numerous complex external hazards present, significant labor or hands on work anticipated.



CPP-10

CPP-603 Plastic Pipeline Break

Area: 336 ft²

Depth: GS to 34 ft bgs

Volume: 11,424 ft³

Criteria	Data
Environmental Risk	Above RGs for Cs-137 (50 times greater) and Sr-90 (5 times greater). Not a significant contributor to Group 3 contamination.
Infrastructure	Easily accessible, very close to CPP-603. 7—infrastructure (3 – Fire Water lines [one abandoned]; 1 – Basin water line; CPP-603; Well MW-13; Road). 4—infrastructure (1 – abandoned condensate line; 1 – abandoned process waste low level; 1—abandoned high pressure steam; 1 – electric duct bank).
Integration	CPP-603, heavy traffic in future, casks enter primarily from west side, on east side a Storage Pad is being built for West Valley Fuel & TAN Casks. Privatized Dry Storage Facility to go somewhere in this general area in the near future (Randal Martin).
Future Use	No identified future use for area CPP-10, CPP-603 to be active after 2012, no anticipated D&D&D through 2012. Unclear where Privatized Dry Storage Facility will be built.
Waste Management	“Minimal” debris generation (pipes, paving concrete, etc.).
Worker Complexity	High to moderate radiological contamination, numerous complex external hazards present, significant labor or hands on work anticipated.



CPP-11

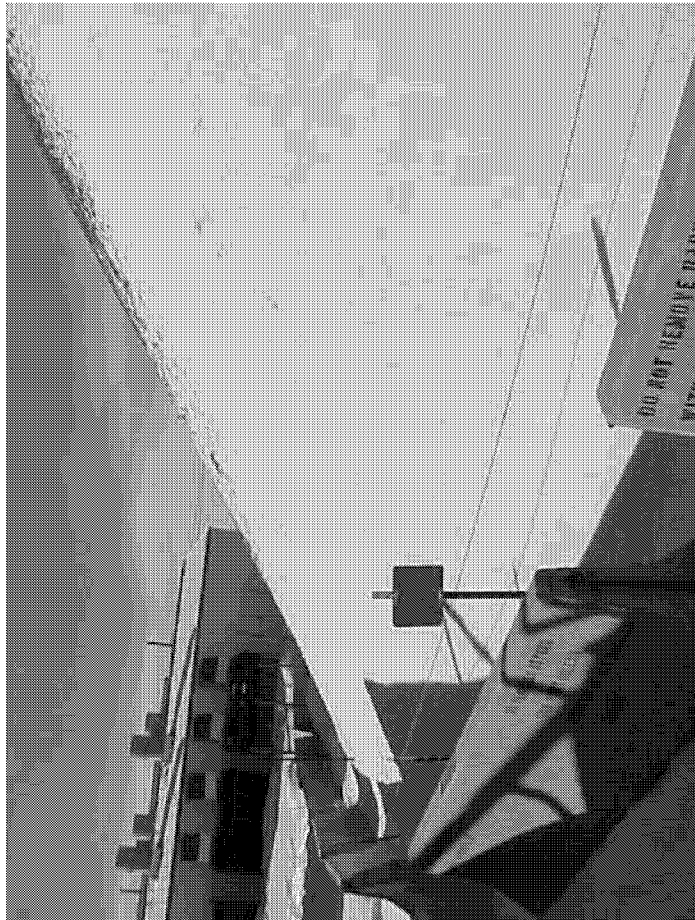
CPP-603 Sludge and Water Release

Area: 2,240 ft²

Depth: GS to 18 ft bgs

Volume: 40,390 ft³

Criteria	Data
Environmental Risk	Above RGs for Cs-137 (2 times). Not a significant contributor to Group 3 contamination.
Infrastructure	Not easily accessible. 5—infrastructures (CPP-648; VES-SFE-106 and Tank Vault w assoc. vault piping; multiple VES-SFE-106 remaining structures; 2 – Electrical [1 – Level circuit conduit]).
Integration	CPP-603, heavy traffic in future, casks enter primarily from west side, on east side a Storage Pad is being built for West Valley Fuel & TAN Casks. Privatized Dry Storage Facility to go somewhere in this general area in the near future (Randal Martin).
Future Use	No identified future use for area CPP-11, CPP-603 to be active after 2012, no anticipated D&D through 2012. Unclear where Privatized Dry Storage Facility will be built.
Waste Management	No debris anticipated.
Worker Complexity	Moderate to low levels of radiological contamination, little to no external hazards present, no labor or hands on work anticipated.



CPP-13

Pressurization of Solid Storage
Cyclone Northeast of CPP-633

Depth: 27.5 ft
(Throughout 25 ft-high berm to 2.5 ft bgs)
Area: 3,949 ft²
Volume: 108,597 ft³

Criteria	Data
Environmental Risk	Above RG's for CS-137 (120 times greater) and Sr-90 (12 times greater). However it is not a significant contributor to Group 3 contamination.
Infrastructure	Medium accessibility. Near kerosene tanks, CPP-1682, slope stability issue. 6 – infrastructure (Berm; Kerosene tanks; kerosene tank containment; piping; Jersey Dividers; CPP-1682).
Integration	Intermittent traffic in the old NWCF area. CPP-695, Radiograph Building is not manned. At least 10 years before emptying Bin Set #1.
Future Use	No identified future use for area CPP-13, or anticipated D&D through 2012.
Waste Management	No debris anticipated.
Worker Complexity	High to moderate radiological contamination, no external hazards identified, no labor or hands on work anticipated.



CPP-14

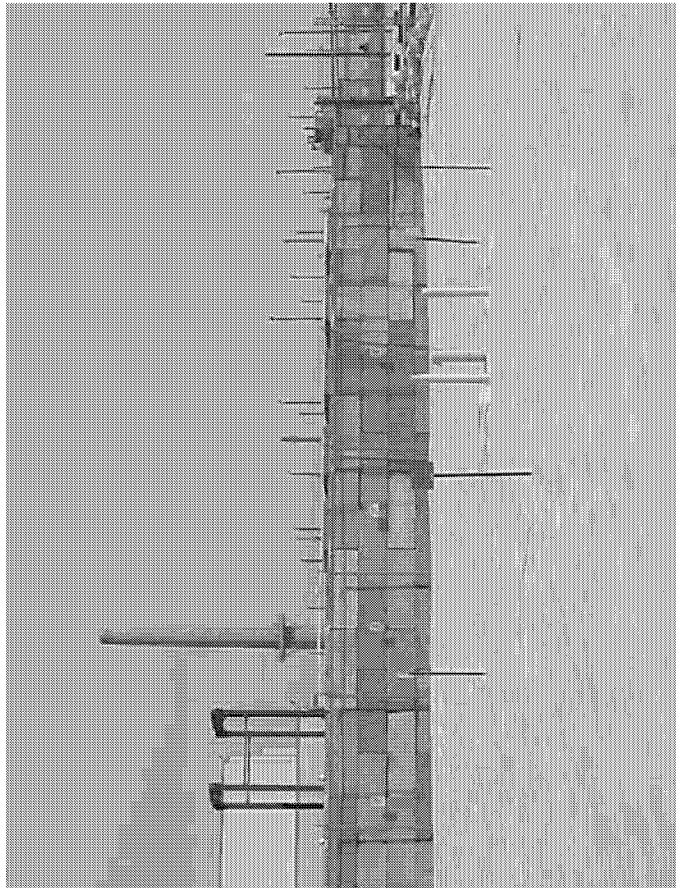
Old Sewage Treatment Plant West
of CPP-664

Depth: varies from 5 ft to 32 ft bgs)

Area: 42,000 ft²

Volume: 1,260,000 ft³

Criteria	Data
Environmental Risk	This site has no constituents with concentrations greater than RGs, it is also not a significant contributor to Group 3 contamination.
Infrastructure	Site accessible, parts under CPP-664 & TB-6. Mobile Trailers & Rad station. 47—infrastructure (7 – water lines [4 are abandoned]; cathodic protection; 2 – telephone lines; overhead power; concrete foundation; pavement; CPP-664; power poles; Fence; 2 – ditches; MAH-WQ-EE-1Q8; MAH-YDE-EE-3C3; HH-YDE-EE-8; MAH-FOS-WQ-007; MAH-FOS-WQ-006; MAH-WQ-EE-108, 7 – sanitary waste lines; 2 – propane lines; 10 – electrical/other lines [2 of the electric banks are abandoned]).
Integration	There will be lots of activity at the Tank Farm least out to 2012 with the Tank Closure Project. Site CPP-14 will be heavily impacted.
Future Use	No clear identified future use and no anticipated D&D through 2012.
Waste Management	Debris requires separate management/containerization (e.g., concrete, pipes, etc.). No anticipated sampling to meet ICDF LDR.
Worker Complexity	Low radiological contamination with moderate organic/inorganic contamination levels, numerous complex external hazards present, significant labor or hands on work anticipated.



CPP-19

CPP-603 to CPP-604 Line Leak

Depth: GS to soil/basalt level

Area: 3,300 ft²

Volume: 142,000 ft³

Criteria	Data
Environmental Risk	Significantly above RG's for CS-137 (7,900 times greater), Eu-152 (306 times greater) and Eu-154 (9 times greater). Also accounts for approximately 7% of all the Cs-137, 70% of all the Eu in the Group 3 sites.
Infrastructure	Easily accessible. 6—infrastructures (1 – abandoned fire water line; cathodic protection; road; Well MW-14, 1—abandoned process waste low level, – abandoned high pressure steam).
Integration	Presently only intermittent trips near the south entrance of CPP-749 by security personnel occur. In a few years Tennessee fuel will arrive and activity will increase significantly. Staging Facility CPP-1617 is to be empty by FY-04 or -05. There will be significant activity and it would affect area near CPP-19.
Future Use	No clear identified future use. No anticipated D&D through 2012.
Waste Management	Debris requires separate management/containerization (e.g. concrete, pipes, etc.). No anticipated sampling to meet ICDF LDR.
Worker Complexity	High radiological contamination with numerous complex external hazards present, significant labor or hands on work anticipated.

CPP-34A

Soil Storage Area (Disposed Trenches)
in the Northeast Corner of INTEC

Depth: below clean soil to 20 ft bgs

Area: 47,000 ft² (A&B)

Volume: 738,500 ft³

Criteria	Data
Environmental Risk	Above RGs for Cs-137 (38 times greater) and Sr-90 (4 times greater). Not a significant contributor to Group 3 contamination.
Infrastructure	Easily accessible. 4—infrastructure (1 – Raw water line; north and east outer perimeter fence; 20’ wide ditch; possible power line, 2 - Direct buried electrical wiring control and 2400V).
Integration	Low traffic area, no ongoing operations.
Future Use	No clear identified future use. No anticipated D&D through 2012.
Waste Management	“Minimal” debris generation (pipes, paving concrete, etc.).
Worker Complexity	High to moderate radiological contamination with moderate organic/inorganic contamination anticipated, some complex external hazards present, some labor or hands on work anticipated.

CPP-34B

Soil Storage Area (Disposed
Trenches) in the Northeast Corner of
INTEC Depth: below clean soil to 20 ft
bgs

Area: 47,000 ft² (*A&B*)
Volume: 738,500 ft³

Criteria	Data
Environmental Risk	Above RGs for Cs-137 (38 times greater) and Sr-90 (4 times greater). Not a significant contributor to Group 3 contamination.
Infrastructure	Easily accessible. 3—infrastructure (north and east outer perimeter fence; 20' wide ditch; possible power line).
Integration	Low traffic area, no ongoing operations.
Future Use	No clear identified future use. No anticipated D&D through 2012.
Waste Management	“Minimal” debris generation (pipes, paving concrete, etc.).
Worker Complexity	High to moderate radiological contamination with moderate organic/inorganic contamination anticipated, some complex external hazards present, some labor or hands on work anticipated.